



## SEQUENCE LISTING

<110> Demotz et al.

<120> SYNTHETIC CHEMOKINES LABELED AT SELECTED POSITIONS

<130> 29964/38772A

<150> US 60/412,866

<151> 2002-09-23

<160> 21

<170> PatentIn version 3.2

<210> 1

<211> 69

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 1

Gly Pro Tyr Gly Ala Asn Met Glu Asp Ser Val Cys Cys Arg Asp Tyr  
1 5 10 15

Val Arg Tyr Arg Leu Pro Leu Arg Val Val Lys His Phe Tyr Trp Thr  
20 25 30

Ser Asp Ser Cys Pro Arg Pro Gly Val Val Leu Leu Thr Phe Arg Asp  
35 40 45

Lys Glu Ile Cys Ala Asp Pro Arg Val Pro Trp Val Lys Met Ile Leu  
50 55 60

Asn Lys Leu Ser Gln  
65

<210> 2

<211> 69

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<220>

<223> Synthetic peptide

<220>

<221> misc\_feature

<222> (1)..(1)

<223> The Glycine at position 1 is biotinylated

<400> 2

Gly Pro Tyr Gly Ala Asn Met Glu Asp Ser Val Cys Cys Arg Asp Tyr  
1 5 10 15

Val Arg Tyr Arg Leu Pro Leu Arg Val Val Lys His Phe Tyr Trp Thr  
20 25 30

Ser Asp Ser Cys Pro Arg Pro Gly Val Val Leu Leu Thr Phe Arg Asp  
35 40 45

Lys Glu Ile Cys Ala Asp Pro Arg Val Pro Trp Val Lys Met Ile Leu  
50 55 60

Asn Lys Leu Ser Gln  
65

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<220>  
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<222> (27)..(27)  
<223> The Lysine at position 27 is biotinylated

<400> 3

Gly Pro Tyr Gly Ala Asn Met Glu Asp Ser Val Cys Cys Arg Asp Tyr  
1 5 10 15

Val Arg Tyr Arg Leu Pro Leu Arg Val Val Lys His Phe Tyr Trp Thr  
20 25 30

Ser Asp Ser Cys Pro Arg Pro Gly Val Val Leu Leu Thr Phe Arg Asp  
35 40 45

Lys Glu Ile Cys Ala Asp Pro Arg Val Pro Trp Val Lys Met Ile Leu  
50 55 60

Asn Lys Leu Ser Gln  
65

<210> 4  
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<220>  
<221> misc\_feature  
<222> (49)..(49)  
<223> The Lysine at position 49 is biotinylated

<400> 4

Gly Pro Tyr Gly Ala Asn Met Glu Asp Ser Val Cys Cys Arg Asp Tyr  
1 5 10 15

Val Arg Tyr Arg Leu Pro Leu Arg Val Val Lys His Phe Tyr Trp Thr  
20 25 30

Ser Asp Ser Cys Pro Arg Pro Gly Val Val Leu Leu Thr Phe Arg Asp  
35 40 45

Lys Glu Ile Cys Ala Asp Pro Arg Val Pro Trp Val Lys Met Ile Leu  
50 55 60

Asn Lys Leu Ser Gln  
65

<210> 5  
<211> 69  
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<222> (61)..(61)  
<223> The Lysine at position 61 is biotinylated

<400> 5

Gly Pro Tyr Gly Ala Asn Met Glu Asp Ser Val Cys Cys Arg Asp Tyr  
1 5 10 15

Val Arg Tyr Arg Leu Pro Leu Arg Val Val Lys His Phe Tyr Trp Thr  
20 25 30

Ser Asp Ser Cys Pro Arg Pro Gly Val Val Leu Leu Thr Phe Arg Asp  
35 40 45

Lys Glu Ile Cys Ala Asp Pro Arg Val Pro Trp Val Lys Met Ile Leu  
50 55 60

Asn Lys Leu Ser Gln  
65

<210> 6  
<211> 69  
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<220>  
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<220>  
<221> misc\_feature  
<222> (66)..(66)  
<223> The Lysine at position 66 is biotinylated

<400> 6

Gly Pro Tyr Gly Ala Asn Met Glu Asp Ser Val Cys Cys Arg Asp Tyr  
1 5 10 15

Val Arg Tyr Arg Leu Pro Leu Arg Val Val Lys His Phe Tyr Trp Thr  
20 25 30

Ser Asp Ser Cys Pro Arg Pro Gly Val Val Leu Leu Thr Phe Arg Asp  
35 40 45

Lys Glu Ile Cys Ala Asp Pro Arg Val Pro Trp Val Lys Met Ile Leu  
50 55 60

Asn Lys Leu Ser Gln

65

<210> 7  
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<220>  
<221> misc\_feature  
<222> (75)..(75)  
<223> The Lysine at position 75 is biotinylated

<400> 7

Gln Pro Asp Ala Ile Asn Ala Pro Val Thr Cys Cys Tyr Asn Phe Thr  
1 5 10 15

Asn Arg Lys Ile Ser Val Gln Arg Leu Ala Ser Tyr Arg Arg Ile Thr  
20 25 30

Ser Ser Lys Cys Pro Lys Glu Ala Val Ile Phe Lys Thr Ile Val Ala  
35 40 45

Lys Glu Ile Cys Ala Asp Pro Lys Gln Lys Trp Val Gln Asp Ser Met  
50 55 60

Asp His Leu Asp Lys Gln Thr Gln Thr Pro Lys Thr  
65 70 75

<210> 8  
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<212> PRT  
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<220>  
<221> misc\_feature  
<222> (73)..(73)  
<223> The Lysine at position 73 is biotinylated

<400> 8

Gly Pro Ala Ser Val Pro Thr Thr Cys Cys Phe Asn Leu Ala Asn Arg  
1 5 10 15

Lys Ile Pro Leu Gln Arg Leu Glu Ser Tyr Arg Arg Ile Thr Ser Gly  
20 25 30

Lys Cys Pro Gln Lys Ala Val Ile Phe Lys Thr Lys Leu Ala Lys Asp  
35 40 45

Ile Cys Ala Asp Pro Lys Lys Trp Val Gln Asp Ser Met Lys Tyr  
50 55 60

Leu Asp Gln Lys Ser Pro Thr Pro Lys Pro  
65 70

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<210> 9
<211> 77
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<220>
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<220>
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<222> (73)..(73)
<223> The Lysine at position 73 is biotinylated

<400> 9

Gly Thr Asn Asp Ala Glu Asp Cys Cys Leu Ser Val Thr Gln Lys Pro
1 5 10 15
Ile Pro Gly Tyr Ile Val Arg Asn Phe His Tyr Leu Leu Ile Lys Asp
20 25 30
Gly Cys Arg Val Pro Ala Val Val Phe Thr Thr Leu Arg Gly Arg Gln
35 40 45
Leu Cys Ala Pro Pro Asp Gln Pro Trp Val Glu Arg Ile Ile Gln Arg
50 55 60
Leu Gln Arg Thr Ser Ala Lys Met Lys Arg Arg Ser Ser
65 70 75

<210> 10
<211> 68
<212> PRT
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<220>
<221> misc_feature
<222> (67)..(67)
<223> The amino acid at position 67 is Dpr(Ser) linked to Alexa
Fluor647

<400> 10

Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys Arg Phe Phe Glu Ser
1 5 10 15
His Val Ala Arg Ala Asn Val Lys His Leu Lys Ile Leu Asn Thr Pro
20 25 30
Asn Cys Ala Leu Gln Ile Val Ala Arg Leu Lys Asn Asn Asn Arg Gln
35 40 45
Val Cys Ile Asp Pro Lys Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys
50 55 60

Ala Leu Xaa Lys
65

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<210> 11
<211> 74
<212> PRT
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<220>
<223> Synthetic peptide

<220>
<221> misc_feature
<222> (73)..(73)
<223> The amino acid at position 73 is Dpr(Ser) linked to EVOblue30

<400> 11
Gly Pro Ala Ser Val Pro Thr Thr Cys Cys Phe Asn Leu Ala Asn Arg
1 5 10 15
Lys Ile Pro Leu Gln Arg Leu Glu Ser Tyr Arg Arg Ile Thr Ser Gly
20 25 30
Lys Cys Pro Gln Lys Ala Val Ile Phe Lys Thr Lys Leu Ala Lys Asp
35 40 45
Ile Cys Ala Asp Pro Lys Lys Trp Val Gln Asp Ser Met Lys Tyr
50 55 60
Leu Asp Gln Lys Ser Pro Thr Pro Xaa Pro
65 70

<210> 12
<211> 69
<212> PRT
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<220>
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<220>
<221> misc_feature
<222> (66)..(66)
<223> The amino acid at position 66 is Dpr(Ser) linked to europium
chelate

<400> 12
Gly Pro Tyr Gly Ala Asn Met Glu Asp Ser Val Cys Cys Arg Asp Tyr
1 5 10 15
Val Arg Tyr Arg Leu Pro Leu Arg Val Val Lys His Phe Tyr Trp Thr
20 25 30
Ser Asp Ser Cys Pro Arg Pro Gly Val Val Leu Leu Thr Phe Arg Asp
35 40 45
Lys Glu Ile Cys Ala Asp Pro Arg Val Pro Trp Val Lys Met Ile Leu
50 55 60
Asn Xaa Leu Ser Gln
65

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<210> 13
<211> 72
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<220>
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<222> (71)..(71)
<223> The amino acid at position 71 is Dpr(Ser) linked to AlexaFluor647

<400> 13

  Ser Ala Lys Glu Leu Arg Cys Gln Cys Ile Lys Thr Tyr Ser Lys Pro
  1           5           10           15
  Phe His Pro Lys Phe Ile Lys Glu Leu Arg Val Ile Glu Ser Gly Pro
  20          25           30
  His Cys Ala Asn Thr Glu Ile Ile Val Lys Leu Ser Asp Gly Arg Glu
  35          40           45
  Leu Cys Leu Asp Pro Lys Glu Asn Trp Val Gln Arg Val Val Glu Lys
  50          55           60
  Phe Leu Lys Arg Ala Glu Xaa Ser
  65          70

<210> 14
<211> 76
<212> PRT
<213> Artificial sequence

<220>
<223> Synthetic peptide

<400> 14

  Gln Pro Asp Ala Ile Asn Ala Pro Val Thr Cys Cys Tyr Asn Phe Thr
  1           5           10           15
  Asn Arg Lys Ile Ser Val Gln Arg Leu Ala Ser Tyr Arg Arg Ile Thr
  20          25           30
  Ser Ser Lys Cys Pro Lys Glu Ala Val Ile Phe Lys Thr Ile Val Ala
  35          40           45
  Lys Glu Ile Cys Ala Asp Pro Lys Gln Lys Trp Val Gln Asp Ser Met
  50          55           60
  Asp His Leu Asp Lys Gln Thr Gln Thr Pro Lys Thr
  65          70           75

<210> 15
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<212> PRT
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<220>

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<223> Synthetic peptide

<400> 15

Gly Pro Ala Ser Val Pro Thr Thr Cys Cys Phe Asn Leu Ala Asn Arg  
1 5 10 15

Lys Ile Pro Leu Gln Arg Leu Glu Ser Tyr Arg Arg Ile Thr Ser Gly  
20 25 30

Lys Cys Pro Gln Lys Ala Val Ile Phe Lys Thr Lys Leu Ala Lys Asp  
35 40 45

Ile Cys Ala Asp Pro Lys Lys Trp Val Gln Asp Ser Met Lys Tyr  
50 55 60

Leu Asp Gln Lys Ser Pro Thr Pro Lys Pro  
65 70

<210> 16

<211> 77

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 16

Gly Thr Asn Asp Ala Glu Asp Cys Cys Leu Ser Val Thr Gln Lys Pro  
1 5 10 15

Ile Pro Gly Tyr Ile Val Arg Asn Phe His Tyr Leu Leu Ile Lys Asp  
20 25 30

Gly Cys Arg Val Pro Ala Val Val Phe Thr Thr Leu Arg Gly Arg Gln  
35 40 45

Leu Cys Ala Pro Pro Asp Gln Pro Trp Val Glu Arg Ile Ile Gln Arg  
50 55 60

Leu Gln Arg Thr Ser Ala Lys Met Lys Arg Arg Ser Ser  
65 70 75

<210> 17

<211> 68

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 17

Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys Arg Phe Phe Glu Ser  
1 5 10 15

His Val Ala Arg Ala Asn Val Lys His Leu Lys Ile Leu Asn Thr Pro  
20 25 30

Asn Cys Ala Leu Gln Ile Val Ala Arg Leu Lys Asn Asn Asn Arg Gln  
35 40 45

Val Cys Ile Asp Pro Lys Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys  
50 55 60

Ala Leu Asn Lys  
65

<210> 18  
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<220>  
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<400> 18

Ser Ala Lys Glu Leu Arg Cys Gln Cys Ile Lys Thr Tyr Ser Lys Pro  
1 5 10 15

Phe His Pro Lys Phe Ile Lys Glu Leu Arg Val Ile Glu Ser Gly Pro  
20 25 30

His Cys Ala Asn Thr Glu Ile Ile Val Lys Leu Ser Asp Gly Arg Glu  
35 40 45

Leu Cys Leu Asp Pro Lys Glu Asn Trp Val Gln Arg Val Val Glu Lys  
50 55 60

Phe Leu Lys Arg Ala Glu Asn Ser  
65 70

<210> 19  
<211> 73  
<212> PRT  
<213> Artificial sequence

<220>  
<223> Synthetic peptide

<400> 19

Phe Pro Met Phe Lys Arg Gly Arg Cys Leu Cys Ile Gly Pro Gly Val  
1 5 10 15

Lys Ala Val Lys Val Ala Asp Ile Glu Lys Ala Ser Ile Met Tyr Pro  
20 25 30

Ser Asn Asn Cys Asp Lys Ile Glu Val Ile Ile Thr Leu Lys Glu Asn  
35 40 45

Lys Gly Gln Arg Cys Leu Asn Pro Lys Ser Lys Gln Ala Arg Leu Ile  
50 55 60

Ile Lys Lys Val Glu Arg Lys Asn Phe  
65 70

<210> 20  
<211> 73  
<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 20

Lys Ser Met Gln Val Pro Phe Ser Arg Cys Cys Phe Ser Phe Ala Glu  
1 5 10 15

Gln Glu Ile Pro Leu Arg Ala Ile Leu Cys Tyr Arg Asn Thr Ser Ser  
20 25 30

Ile Cys Ser Asn Glu Gly Leu Ile Phe Lys Leu Lys Arg Gly Lys Glu  
35 40 45

Ala Cys Ala Leu Asp Thr Val Gly Trp Val Gln Arg His Arg Lys Met  
50 55 60

Leu Arg His Cys Pro Ser Lys Arg Lys  
65 70

<210> 21

<211> 69

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 21

Ala Gln Val Gly Thr Asn Lys Glu Leu Cys Cys Leu Val Tyr Thr Ser  
1 5 10 15

Trp Gln Ile Pro Gln Lys Phe Ile Val Asp Tyr Ser Glu Thr Ser Pro  
20 25 30

Gln Cys Pro Lys Pro Gly Val Ile Leu Leu Thr Lys Arg Gly Arg Gln  
35 40 45

Ile Cys Ala Asp Pro Asn Lys Lys Trp Val Gln Lys Tyr Ile Ser Asp  
50 55 60

Leu Lys Leu Asn Ala  
65